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Doran R. Pace, Patent Attorney

INFORMATION DISCLOSURE
STATEMENT

Examining Group 1652

Patent Application

Docket No. UF-314XC1

Serial No. 10/644,123

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1652
Applicants : Nigel Gordon John Richards, Christopher Harry Chang, Ammon B. Peck
Serial No. : 10/644,123
Filed : August 20, 2003
Conf. No. : 7962
For : Polynucleotide Encoding Oxalate Decarboxylase from Aspergillus Niger and Methods of Use

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P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

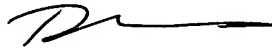
Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed.

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



Doran R. Pace
Patent Attorney
Registration No. 38,261
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: 2421 N.W. 41st Street, Suite A-1
Gainesville, FL 32606-6669

DRP/amh

Attachments: Form PTO/SB/08; copies of references cited therein.



PTO/SB/08A (08-03)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/644,123
				Filing Date	August 20, 2003
				First Named Inventor	Nigel G. J. Richards
				Art Unit	1652
				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	UF-314XC1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US-6,355,242	03-12-2002	Allison <i>et al.</i>	All
	U2	US-6,297,425	10-02-2001	Scelonge <i>et al.</i>	All
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	F1	WO 98/52586	11-26-1998	Ixion Biotechnology Inc.	All	
	F2					
	F3					
	F4					
	F5					
	F6					
	F7					

Examiner Signature		Date Considered	
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	R1	ALLISON, M.J. <i>et al.</i> "Oxalate Degradation by Microbes of the Large Bowel of Herbivores: The Effect of Dietary Oxalate", <i>Science</i> , 1981, pp. 675-676, Vol. 212, No. 4495.	
	R2	ALLISON, M.J. <i>et al.</i> "Oxalobacter Formigenes gen. nov., sp. nov.: Oxalate-Degrading Anaerobes that Inhabit the Gastrointestinal Tract", <i>Arch Microbiol.</i> , 1985, pp. 1-7, Vol. 141.	
	R3	ALLISON, M.J. <i>et al.</i> "Oxalate Degradation by Gastrointestinal Bacteria from Humans", <i>J. Nutr.</i> , 1986, pp. 455-460, Vol. 116.	
	R4	ALTSCHUL, S.F. <i>et al.</i> "Gapped BLAST and PSI-BLAST: A New Generation Of Protein Database Search Programs", <i>Nucl. Acids Res.</i> , 1997, pp. 3389-3402, Vol. 25, No. 17.	
	R5	ANAND, R. <i>et al.</i> "Structure of Oxalate Decarboxylase from <i>Bacillus Subtilis</i> at 1.75 A Resolution", <i>Biochemistry</i> , 2002, pp. 7659-7669, Vol. 41.	
	R6	BALDWIN, J. <i>et al.</i> "Mechanism of Rapid Electron Transfer During Oxygen Activation in the R2 Subunit of <i>Escherichia Coli</i> Ribonucleotide Reductase. 1. Evidence for a Transient Tryptophan Radical", <i>J. Am. Chem. Soc.</i> , 2000, pp. 12195-12206, Vol. 122.	
	R7	BAR, G. <i>et al.</i> "High-Frequency (140-GHz) Time Domain EPR and ENDOR Spectroscopy: The Tyrosyl Radical-Diiron Cofactor in Ribonucleotide Reductase from Yeast", <i>J. Am. Chem. Soc.</i> , 2001, pp. 3569-3576, Vol. 123.	
	R8	BASOSI, R. <i>et al.</i> "Multifrequency ESR of Copper Biophysical Applications", <i>EMR of Paramagnetic Molecules</i> , 1993, pp. 103-150, Vol. 13, Plenum Press, New York.	
	R9	DANIEL, S.L. <i>et al.</i> "Microbial Degradation of Oxalate in the Gastrointestinal Tracts of Rats", <i>Appl. Environ. Microbiol.</i> , 1987, pp. 1793-1797, Vol. 53, No. 8.	
	R10	DAWSON, K.A. <i>et al.</i> "Isolation and Some Characteristics of Anaerobic Oxalate-Degrading Bacteria from the Rumen", <i>Appl. Environ. Microbiol.</i> , 1980, pp. 833-839, Vol. 40, No. 4.	
	R11	DOANE, L.T. <i>et al.</i> "Microbial Oxalate Degradation: Effects on Oxalate and Calcium Balance in Humans", <i>Nutr. Res.</i> , 1989, pp. 957-964, Vol. 9.	
	R12	DUNWELL, J.M. <i>et al.</i> "Microbial Relatives of the Seed Storage Proteins of Higher Plants: Conservation of Structure and Diversification of Function During Evolution of the Cupin Superfamily", <i>Microbiol. Mol. Biol. Rev.</i> , 2000, pp. 153-179, Vol. 64, No. 1.	
	R13	DUTTON, M.V. <i>et al.</i> "Oxalate Production by Fungi: Its Role In Pathogenicity and Ecology in the Soil Environment", <i>Can. J. Microbiol.</i> , 1996, pp. 881-895, Vol. 42, Canada.	

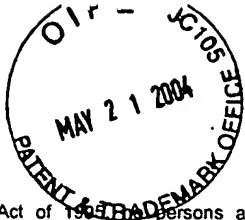
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		First Named Inventor	Nigel G. J. Richards		
		Group Art Unit	1652		
		Examiner Name			
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	R14	EMILIANI, E. <i>et al.</i> "Enzymatic Oxalate Decarboxylation in <i>Aspergillus Niger</i> ", <i>Arch. Biochem. Biophys.</i> , 1964, pp. 488-493, Vol. 105.	
	R15	EMILIANI, E. <i>et al.</i> "Enzymatic Oxalate Decarboxylation in <i>Aspergillus Niger</i> : Hydrogen Peroxide Formation and Other Characteristics of the Oxalate Decarboxylase", <i>Biochimica Biophysica Acta</i> , 1968, pp. 414-421, Vol. 167.	
	R16	GANE, P.J. <i>et al.</i> "Modeling Based on the Structure of Vicilins Predicts a Histidine Cluster in the Active Site of Oxalate Oxidase", <i>J. Mol. Evol.</i> , 1998, pp. 488-493, Vol. 46.	
	R17	HALCROW, M. A. "Chemically Modified Amino Acids in Copper Proteins that Bind or Activate Dioxygen", <i>Angew. Chem. Int. Ed.</i> , 2001, pp. 346-349, Vol. 40, No. 2.	
	R18	HALLIWELL, B. "Non-Enzymic Catalysis of Oxalate Decarboxylation by Light and Flavins", <i>Biochem. J.</i> , 1972, pp. 497-498, Vol. 129.	
	R19	KATHIARA, M. <i>et al.</i> "Detection and Partial Characterization of Oxalate Decarboxylase from <i>Agaricus Bisporus</i> ", <i>Mycol. Res.</i> , 2000, pp. 345-350, Vol. 104, No. 3.	
	R20	KESARWANI, M. <i>et al.</i> "Oxalate Decarboxylase from <i>Collybia Velutipes</i> : Molecular Cloning and its Overexpression to Confer Resistance to Fungal Infection in Transgenic Tobacco and Tomato", <i>J. Biol. Chem.</i> , 2000, pp. 7230-7238, Vol. 275, No. 10.	
	R21	KIMMERLING, E.A. <i>et al.</i> "Invasive <i>Aspergillus Niger</i> with Fatal Pulmonary Oxalosis in Chronic Obstructive Pulmonary Disease", <i>Chest</i> , 1992, pp. 870-872, Vol. 101, No. 3.	
	R22	KOTSIRA, V.P. <i>et al.</i> "Oxalate Oxidase from Barley Roots: Purification to Homogeneity and Study of Some Molecular, Catalytic, and Binding Properties", <i>Arch. Biochem. Biophys.</i> , 1997, pp. 239-249, Vol. 340, No. 2.	
	R23	KREBS, C. <i>et al.</i> "Mechanism of Rapid Electron Transfer During Oxygen Activation in the R2 Subunit of <i>Escherichia coli</i> Ribonucleotide Reductase. 2. Evidence for and Consequences of Blocked Electron Transfer in the W48F Variant", <i>J. Am. Chem. Soc.</i> , 2000, pp. 12207-12219, Vol. 122.	
	R24	KUNST, F. <i>et al.</i> "The Complete Genome Sequence of the Gram-Positive Bacterium <i>Bacillus Subtilis</i> ", <i>Nature</i> , 1997, pp. 249-256, Vol. 390.	
	R25	LANDRY, M.M. <i>et al.</i> "Calcium Oxalate Crystal Deposition in Necrotizing Otomycosis Caused by <i>Aspergillus Niger</i> ", <i>Mod. Pathol.</i> , 1993, pp. 493-496, Vol. 6.	
	R26	LILLEHOJ, E.B. <i>et al.</i> "An Oxalic Acid Decarboxylase of <i>Myrothecium Verrucaria</i> ", <i>Arch. Biochem. Biophys.</i> , 1965, pp. 216-220, Vol. 109.	

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Sheet

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of

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	R27	MEHTA, A. <i>et al.</i> "Oxalate Decarboxylase from <i>Collybia Velutipes</i> - Purification, Characterization, and cDNA Cloning", <i>J. Biol. Chem.</i> , 1991, pp. 23548-23553, Vol. 266, No. 35.	
	R28	METZGER, J.B. <i>et al.</i> "Pulmonary Oxalosis Caused by <i>Aspergillus Niger</i> ", <i>Am. Rev. Respir. Dis.</i> , 1984, pp. 501-502, Vol. 129.	
	R29	NEVES-PETERSON, M.T. <i>et al.</i> "Engineering the pH-Optimum of a Triglyceride Lipase: From Predictions Based on Electrostatic Computations to Experimental Results", <i>J. Biotech.</i> , 2001, pp. 225-254, Vol. 87.	
	R30	NIELSEN, J.E. <i>et al.</i> "Electrostatics in the Active Site of an α -Amylase", <i>Eur. J. Biochem.</i> , 1999, pp. 816-824, Vol. 264.	
	R31	PARAST, C.V. <i>et al.</i> "Hydrogen Exchange of the Glycyl Radical of Pyruvate Formate-Lyase Is Catalyzed by Cysteine 419", <i>Biochemistry</i> , 1995, pp. 2393-2399, Vol. 34, No. 8.	
	R32	PARAST, C.V. <i>et al.</i> "Electron Paramagnetic Resonance Evidence for a Cysteine-Based Radical in Pyruvate Formate-Lyase Inactivated with Mercaptopyruvate", <i>Biochemistry</i> , 1995, pp. 5712-5717, Vol. 34.	
	R33	PERSSON, A.L. <i>et al.</i> "CysteinyI and Substrate Radical Formation in Active Site Mutant E441Q of <i>Escherichia Coli</i> Class I Ribonucleotide Reductase", <i>J. Biol. Chem.</i> , 1998, pp. 31016-31020, Vol. 273, No. 47.	
	R34	QUAYLE, J.R. "Carbon Assimilation by <i>Pseudomonas Oxalaticus</i> (OX1) Decarboxylation of Oxalyl-Coenzyme A to Formyl-Coenzyme A", <i>Biochem. J.</i> , 1963, pp. 492-503, Vol. 89.	
	R35	REQUENA, L. <i>et al.</i> "Barley (<i>Hordeum Vulgare</i>) Oxalate Oxidase is a Manganese-Containing Enzyme", <i>Biochem. J.</i> , 1999, pp. 185-190, Vol. 343.	
	R36	RUPP, H. <i>et al.</i> "Electron Spin Relaxation of Iron-Sulphur Proteins Studied by Microwave Power Saturation", <i>Biochimica Biophysica Acta</i> , 1978, pp. 255-269, Vol. 537.	
	R37	SEEBACH, D. "Methods of Reactivity Umpolung", <i>Angew. Chem. Intl. Ed. Engl.</i> , 1979, pp. 239-258, Vol. 18, No. 4.	
	R38	SHAW, A. <i>et al.</i> "Protein Engineering of α -Amylase for Low pH Performance", <i>Current Opinion in Biotechnology</i> , 1999, pp. 349-352, Vol. 10, No. 4.	
	R39	SHIMAZONO, H. "Oxalic Acid Decarboxylase, A New Enzyme from the Mycelium of Wood Destroying Fungi", <i>J. Biochem.</i> , 1955, pp. 321-340, Vol. 42, No. 3.	

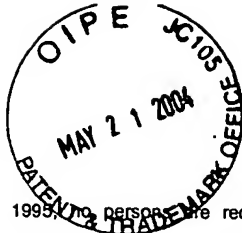
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	R40	SHIMAZONO, H. <i>et al.</i> "Enzymatic Decarboxylation of Oxalic Acid", <i>J. Biol. Chem.</i> , 1957, pp. 151-159, Vol. 227.	
	R41	SOLOMONS, C.C. <i>et al.</i> "Calcium Citrate for Vulvar Vestibulitis", <i>J. Repro. Med.</i> , 1991, pp. 879-882, Vol. 36.	
	R42	SU, Q. <i>et al.</i> "Probing the Mechanism of Proton Coupled Electron Transfer to Dioxygen: the Oxidative Half-Reaction of Bovine Serum Amine Oxidase", <i>Biochem</i> , 1998, pp. 12513-12525, Vol. 37.	
	R43	TANNER, A. <i>et al.</i> "Bacillus Subtilis YvrK Is an Acid-Induced Oxalate Decarboxylase", <i>J. Bact.</i> , 2000, pp. 5271-5273, Vol. 182, No. 18.	
	R44	TANNER, A. <i>et al.</i> "Oxalate Decarboxylase Requires Manganese and Dioxygen for Activity", <i>J. Biol. Chem.</i> , 2001, pp. 43627-43634, Vol. 276, No. 47.	
	R45	VILLAFRANCA, J.J. <i>et al.</i> "Manganese (II) and Substrate Interaction with Unadenylylated Glutamine Synthetase (<i>Escherichia Coli</i> W). II. Electron Paramagnetic Resonance and Nuclear Magnetic Resonance Studies of Enzyme-Bound Manganese(II) with Substrates and a Potential Transition-State Analogue, Methionine Sulfoximine", <i>Biochem.</i> , 1976, pp. 544-553, Vol. 15, No. 3.	
	R46	WALTER, P. <i>et al.</i> "Signal Sequence Recognition and Protein Targeting to the Endoplasmic Reticulum Membrane", <i>Annu. Rev. Cell Biol.</i> , 19-94, pp. 87-119, Vol. 10.	
	R47	WOO, E. <i>et al.</i> "Germin is a Manganese Containing Homohexamer with Oxalate Oxidase and Superoxide Dismutase Activities", <i>Nat. Struct. Biol.</i> , 2000, pp. 1036-1040, Vol. 7, No. 11.	
	R48	KARLIN, S. <i>et al.</i> "Methods for Assessing the Statistical Significance of Molecular Sequence Features by Using General Scoring Schemes", <i>Proc. Natl. Acad. Sci. USA</i> , 1990, pp. 2264-2268, Vol. 87.	
	R49	KARLIN, S. <i>et al.</i> "Applications and Statistics for Multiple High-Scoring Segments in Molecular Sequences", <i>Proc. Natl. Acad. Sci. USA</i> , 1993, pp. 5873-5877, Vol. 90.	
	R50	PADMAKUMAR, R. <i>et al.</i> "Evidence from Electron Paramagnetic Resonance Spectroscopy of the Participation of Radical Intermediates in the Reaction Catalyzed by Methymalonyl-Coenzyme A Mutase", <i>J. Biol. Chem.</i> , 1995, pp. 9295-9300, Vol. 270, No. 16.	
	R51	DRUMMOND, A.Y. <i>et al.</i> "Stages in Oxidations of Organic Compounds by Potassium Permanganate; Part I. The Permanganate-Manganate Stage; Part II. The Manganic-Manganous Stage", <i>J. Chem. Soc.</i> , 1953, pp. 435-443.	

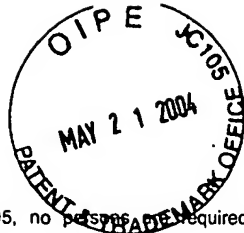
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STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/644,123
Filing Date	August 20, 2003
First Named Inventor	Nigel G. J. Richards
Group Art Unit	1652
Examiner Name	
Attorney Docket Number	UF-314XC1

Sheet 6 of 6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R52	EDLUND, O. <i>et al.</i> "ENDOR Study of γ -Irradiated Single Crystals of Sodium Hydrogen Oxalate Monohydrate, NaHC ₂ O ₄ H ₂ O", <i>J. Magnetic Res.</i> , 1973, pp. 7-14, Vol. 10.	
	R53	BARD, A.J. <i>et al.</i> "Electrode Potentials and Voltammetric Properties", <u>Encyclopedia of Electrochemistry of the Elements</u> , 1975, pp. 267-328, Marcel Dekker, Inc., New York.	
	R54		
	R55		
	R56		
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